Name: ..... Class: .....

Task 1

Computers often contain the following components:

- Cables
- Keyboard
- Case
- Hard drive
- CPU, heatsink and fan
- Mouse
- Display
- Motherboard
- RAM

The table below shows a number of different materials used in a computer. Complete the table to show in which component(s) the materials are most likely to be used.

The first row has been completed for you.

Material	Component(s) the material is used in
Steel	
Gold	
Copper	
Aluminium	
Fibreglass	
Plastic	

Task 2

(a) The use of computers and devices has led to damage to the environment from production and a large amount of e-waste being produced.

Research some **five** negative impacts on the environment and people of the use of computers and electronic devices and list at least **five** below.

(b) Some uses of modern technology can have a positive impact on the environment.

Research some of these positive impacts and note down at least **five** below.

Task 3

Planned obsolescence is the name given to products that have been designed to have a limited useful life.

Research 'planned obsolescence'.

Some suggested sites that you may wish to use include:

https://www.bbc.com/future/article/20160612-heres-the-truth-about-the-planned-obsolescence-of-tech

https://www.forbes.com/sites/adamsarhan/2017/12/22/planned-obsolescence-apple-is-not-the-only-culprit/#594228a3cf24

https://www.computerdisposals.co.uk/news/planned-obsolescence-is-technology-programmed-to-fail/

(a) Explain at least **three** ways that companies can design products with planned obsolescence.

(b) Explain at least **three** environmental impacts of planned obsolescence.

(c) Explain at least **two** cultural impacts of planned obsolescence.

(d) Explain at least **two** benefits for companies in designing products with planned obsolescence.